

# Connection cable

## V11-G-BK0,55M-PUR-U-V11-G



- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight to M12 plug straight A-coded, 3-pin, PUR cable black, UL approved, drag chain suitable, torsion resistant



### Dimensions



### Technical Data

#### General specifications

|                    |  |                  |  |
|--------------------|--|------------------|--|
| <b>Connector 1</b> |  |                  |  |
| Connection         |  | socket           |  |
| Construction type  |  | M12              |  |
| Style              |  | straight         |  |
| Locking            |  | screw connection |  |
| Number of pins     |  | 3                |  |
| Coding             |  | A-coded          |  |
| <b>Connector 2</b> |  |                  |  |
| Connection         |  | plug             |  |
| Construction type  |  | M12              |  |
| Style              |  | straight         |  |
| Locking            |  | screw connection |  |
| Number of pins     |  | 3                |  |
| Coding             |  | A-coded          |  |

#### Electrical specifications

|                   |                |                  |  |
|-------------------|----------------|------------------|--|
| Operating voltage | U <sub>B</sub> | max. 250 V AC/DC |  |
| Operating current | I <sub>B</sub> | max. 4 A         |  |

#### Conformity

|                      |                                     |  |  |
|----------------------|-------------------------------------|--|--|
| Degree of protection | EN 60529                            |  |  |
| Plug connection      | connector M12 x 1 : IEC 61076-2-101 |  |  |
| Flammability         | UL 1581; DIN EN 60332-2-2           |  |  |
| Halogen-free         | IEC 60754-1                         |  |  |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## Technical Data

### Approvals and certificates

|                |  |  |
|----------------|--|--|
| UL approval    |  | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable) |
| UL File Number |  | E231213  |

### Ambient conditions

|                     |  |                                |
|---------------------|--|--------------------------------|
| Ambient temperature |  |                                |
| Plug connector      |  | -40 ... 90 °C (-40 ... 194 °F) |
| Cable, fixed        |  | -40 ... 80 °C (-40 ... 176 °F) |
| Cable, flexing      |  | -20 ... 80 °C (-4 ... 176 °F)  |
| Pollution degree    |  | 3                              |

### Mechanical specifications

|  |   |  |
|--|---|--|
| Plug connector                                   |   |  |
| Tightening torque                                |   | 0.6 Nm   |
| Loosening protection                             |   | available  |
| Tool installation                                |   | straight knurling and hexagon nut SW = 14 mm                 |
| Mating cycles                                    |   | min. 100   |
| Degree of protection                             |   | IP68 / IP69  |
| Cable  |   |  |
| according to IEC/EN 60228 (DIN VDE 0295) class 6 |   |  |
| Sheath diameter                                  |   | 4.3 mm   |
| Bending radius                                   |   | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed |
| Sheath stripping force                           |   | max. 80 N / 300 mm   |
| Sheath color                                     |   | black (similar to RAL 9005)                                  |
| Number of cores                                  |   | 3  |
| Core cross section                               |   | 0.34 mm <sup>2</sup>   |
| Cores color                                      |   | Core 1: brown<br>Core 3: blue<br>Core 4: black               |
| Core construction                                |   | 42 x 0.1 mm Ø  |
| Length   | L | 0.55 m   |
| Cable code                                       |   | Li F 9Y 11Y 3 x 0,34   |
| Drag chain suitability                           |   |  |
| Drag chain cycles                                |   | min. 5000000   |
| Motion velocity                                  |   | max. 3.3 m/s   |
| Traverse distance                                |   | max. 5 m   |
| Acceleration                                     |   | max. 5 m/s <sup>2</sup>                                      |
| Torsion cycles                                   |   | min. 1000000   |
| Torsional stress                                 |   | ± 180 °/m  |

### Material

|                              |  |                             |
|------------------------------|--|-----------------------------|
| PWIS free                    |  | yes                         |
| Halogen-free                 |  | yes                         |
| Plug connector               |  |                             |
| Screw connection             |  | Zinc diecast, nickel-plated |
| Body                         |  | TPU, black                  |
| Seal                         |  | FKM                         |
| Contact surface              |  | gold plated (Au)            |
| Flammability                 |  | V-2                         |
| Cable                        |  |                             |
| Sheathing                    |  | PUR based on polyether      |
| Core insulation              |  | PP                          |
| UV resistance                |  | yes                         |
| Chemical resistance          |  | good                        |
| Oil resistance               |  | yes                         |
| Cooling lubricant resistance |  | yes                         |
| Microbial resistance         |  | yes                         |

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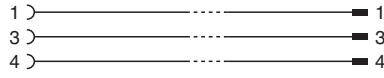
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### Technical Data

|                       |     |
|-----------------------|-----|
| Hydrolysis resistance | yes |
| Flammability          | FT2 |

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